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(FILE 'USPAT' ENTERED AT 15:09:33 ON 03 JUL 96)

L1	169 S FAN CONTROL? AND MICROPROCESSOR
L2	365 S FAN (P) COOL? (P) ?PROCESSOR
L3	52 S L1 AND L2
L4	119971 S CLOCK
L5	24 S L3 AND L4
L6	733215 S TEMPERATURE
L7	24 S L5 AND L6

File 351:DERWENT WPI 1981-1996/UD=9625;UA=9621;UM=9613

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File 350:Derwent World Pat. 1963-1980/UD=9624

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File 348:EUROPEAN PATENTS 1978-1996/JUN W3

(c) 1996 European Patent Office

File 347:JAPIO OCT 1976-1996/Feb.

(c) JPO & JAPIO

File 344:Chinese Patents ABS Apr 1985-1996/Jun

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Set	Items	Description
S1	44919	MICROPROCESSOR? ? OR MICRO()PROCESSOR? ?
S2	51954	(CLOCK? ? OR CLOCKING) (5N) (CONTROL? OR GENERAT?)
S3	54827	(TEMPERATURE? ? OR HEAT? OR THERMAL?) (5N) (SENSOR OR SENSORS OR SENSING)
S4	190728	(FREQUENCY OR FREQUENCIES OR SPEED? ?) (5N) (REDUC? OR SLOW? OR ADJUST? OR MODIF? OR CHANG? OR ALTER? OR LOWER? OR DECELER-AT?)
S5	110	S1 (N100) S2 (N100) S2 (N100) S4
S6	77	S5 NOT (PY=1995:1996 OR PD=940620:960703)
S7	4	S1 (N100) S2 (N100) S3 (N100) S4
S8	0	S8 NOT (PY=1995:1996 OR PY=940620:960703)
S9	23	S1 (N100) S3 (N100) S4
S10	0	S10 NOT (S8 OR PY=1995:1996 OR PD=940620:960703)

7/5/1 (Item 1 from file: 351)

DIALOG(R) File 351:DERWENT WPI

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003103819 WPI Acc No: 81-L3868D/44

Extrapolating digital thermometer uses clock oscillator and two microprocessors coupled to operational memory, increasing speed and range

Patent Assignee: (CHTE=) CHELY TEPLOPRIBOR

Author (Inventor): PYATSHEV V V; PEKLER V N

Number of Patents: 001

Patent Family:

CC Number	Kind	Date	Week
SU 796668	A	810125	8144 (Basic)

Priority Data (CC No Date): SU 2685107 (781115); SU A85107 (781115)

Abstract (Basic): A clock oscillator and two *microprocessors* are used in the digital thermometer to increase speed and the temperature range.

The temperature sensor e.g. a thermocouple resistance thermometer etc., signals are converted into digital form under clock pulses control, also applied to the operational memory and the microprocessors. The converter output code is linearised and stored. The three adjoining codes are processed indicating extrapolated temperature.

The extrapolation allows measurement of very high temperature above the sensors range. The circuit is suitable for any type of temperature sensor and outputs non-linearity as the characteristics are automatically corrected by the processing. The interpolation *speed* is *reduced* to tens of milliseconds. Bul.2/15.1.81. (3pp)

File Segment: EPI

Derwent Class: S03; R14;

Int Pat Class: G01K-007/16

Manual Codes (EPI/S-X): S03-B01A